

INTERNATIONAL SEARCH REPORT

Intern  Application No
PCT/DE2005/000188

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B21D43/10 B21D43/05

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 195 21 976 A1 (MUELLER-WEINGARTEN AG, 88250 WEINGARTEN, DE) 21 December 1995 (1995-12-21) cited in the application figures 4,5,14	1-5
A	DE 44 31 359 C1 (STRASSER, DIETMAR, DIPL.-ING., 81379 MUENCHEN, DE) 30 May 1996 (1996-05-30) figures 1,2	1-5
A	EP 0 930 110 A (MUELLER WEINGARTEN AG) 21 July 1999 (1999-07-21) figures 1-4	1-5
-/--		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

30 June 2005

Date of mailing of the international search report

06/07/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Vinci, V

INTERNATIONAL SEARCH REPORT

Intern  Application No
PCT/DE2005/000188

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 32 33 428 C1 (MASCHINENFABRIK MUELLER-WEINGARTEN AG, 7987 WEINGARTEN, DE) 1 June 1983 (1983-06-01) figures 1,2 -----	1-5
A	EP 0 574 397 B (AB VOLVO) 22 May 1996 (1996-05-22) figures 1,2 -----	1-5
A	EP 0 872 438 A (GMG AUTOMATION GMBH & CO; SCHULER AUTOMATION GMBH & CO. KG) 21 October 1998 (1998-10-21) figures 1,2 -----	1-5

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/DE2005/000188

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 19521976	A1	21-12-1995	DE 59507211 D1 16-12-1999 EP 0693334 A1 24-01-1996 ES 2139777 T3 16-02-2000
DE 4431359	C1	30-05-1996	NONE
EP 0930110	A	21-07-1999	DE 19801731 A1 22-07-1999 DE 59808260 D1 12-06-2003 EP 0930110 A2 21-07-1999 ES 2199404 T3 16-02-2004
DE 3233428	C1	29-04-1993	FR 2532886 A1 16-03-1984
EP 0574397	B	22-12-1993	SE 466246 B 20-01-1992 AU 655619 B2 05-01-1995 CZ 9301130 A3 15-12-1993 CZ 282897 B6 12-11-1997 DE 69119786 D1 27-06-1996 DE 69119786 T2 26-09-1996 EP 0574397 A1 22-12-1993 JP 6503272 T 14-04-1994 KR 163060 B1 15-01-1999 RU 2102239 C1 20-01-1998 SK 60793 A3 09-09-1993 US 5520502 A 28-05-1996 AU 9088291 A 08-07-1992 CA 2098090 A1 15-06-1992 ES 2087511 T3 16-07-1996 HU 63806 A2 28-10-1993 SE 9004006 A 20-01-1992 WO 9210360 A1 25-06-1992 US 5909997 A 08-06-1999
EP 0872438	A	21-10-1998	DE 19716039 A1 22-10-1998 AT 220382 T 15-07-2002 DE 59804708 D1 14-08-2002 EP 0872438 A1 21-10-1998 ES 2175546 T3 16-11-2002 US 6024530 A 15-02-2000